Period 3 Vertex predictions & Event Location

New Period 3 Events

- There are 38 "good" events, 11 events with a "?" and 3 events send to Vittorio.

- From the 38 "good" events :

  – 30 events have errors obtained from MINUIT and have been send to Japan.

  – 8 events do not have errors yet, due mainly to small number of SF lines (1-2) and 3D SF tracks (0-1)

- From the 11 " ? " events :

  – 8 events have errors in their predictions

  – 3 do not have errors , for the same reasons

New Period 3 Events to Japan

- 30 EVENTS have been send to Japan.

  scanning volume = 3*Error for u, v and z.

- If the scanning volume is **greater** than **3 cm in z** and **1 cm in u and v** then the event is characterized as **"suspended"**

- From the 30 events we send we got a reply form the Japanese for the 22. For the remaining 8 we calculated the scanning volume ourselves.

- **9 events** out of **30 send** are characterized as **suspended.**

New Period 3 Events to Japan (table)

RUN	EVENT	jud	UPOS	VPOS	U size	V size	Zsize
3137	**13156**	**sus**	**-164440.0**	**190520.0**	**11700.0**	**8100.0**	**28500.0**
3137	**13373**	**sus**	**-203920.0**	**89360.0**	**9600.0**	**8100.0**	**39300.0**
3137	**17591**	**sus**	**-218400.0**	**-106870.0**	**6000.0**	**5100.0**	**67500.0**
3138	02287	o	-192110.0	57570.0	6600.0	6900.0	9300.0
3138	**07918**	**sus**	**25920.0**	**13810.0**	**7500.0**	**7200.0**	**42300.0**
3139	01834	o	-166130.0	-50580.0	6300.0	8700.0	12300.0
3139	28913	o	153730.0	170620.0	6300.0	6600.0	20400.0
3140	01642	o	147440.0	-132220.0	6600.0	6900.0	8100.0
3142	02026	o	-216910.0	126480.0	6600.0	6900.0	11700.0
3142	04221	o	59750.0	-4730.0	8400.0	9000.0	18300.0
3142	**06667**	**sus**	**128210.0**	**39060.0**	**6900.0**	**9600.0**	**33300.0**
3143	01515	o	201750.0	-159670.0	7800.0	7200.0	18600.0
3144	05155	o	58820.0	107870.0	6600.0	5100.0	13800.0
3145	19765	o	-15350.0	119140.0	5100.0	5400.0	6600.0
3147	02114	o	-180040.0	134420.0	7200.0	6900.0	18000.0
3171	**22894**	**sus**	**83970.0**	**-203460.0**	**15600.0**	**9300.0**	**31500.0**
3177	19589	o	-143660.0	95110.0	6300.0	6000.0	23400.0
3182	03667	o	-76310.0	-109060.0	6900.0	6000.0	18600.0
3185	11192	o	102080.0	-92630.0	8400.0	7500.0	18000.0
3185	**16281**	**sus**	**126240.0**	**-166340.0**	**6000.0**	**7200.0**	**33000.0**
3188	24400	o!!	-187310.0	34200.0	5700.0	6900.0	8100.0
3202	**24917**	**sus**	**53950.0**	**-221190.0**	**6000.0**	**11100.0**	**17700.0**

HAVE NOT RECIEVED ANSWER YET FROM JAPAN
(IN METERS)

RUN	EVENT	ZPOS	ZSIZE	UPOS	USIZE	VPOS	VSIZE
3138	19314	0.33195	0.01725	0.11036	0.00270	-0.23633	0.00315
3145	14615	0.04081	0.01230	-0.00596	0.00315	-0.09729	0.00420
3175	1209	0.90679	0.01575	-0.23264	0.00360	0.05653	0.00555
3188	**6415**	**0.61536**	**0.04569**	**-0.21400**	**0.01080**	**-0.14638**	**0.00414**
3188	26952	0.60520	0.00690	0.22632	0.00225	0.01053	0.00270
3192	28415	0.00596	0.02970	0.23125	0.00270	0.17610	0.00240
3193	22870	0.89863	0.01605	0.13625	0.00240	-0.09857	0.00255
3193	26805	0.57301	0.01320	-0.01890	0.00300	0.22729	0.00270

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Event Location

- We have started looking at the existing methods (3) for event location :

    - **ROOT** **->** Got the source code from fnbblx, compiled it, run it and made a few macros to start understanding what it can do.
    - **ECVTXA ->** Got much information from Bruce and help from Lauren and Gina (set up a directory in fnbblx where I can run and test things)
    - **Bruce's code ->** Got the source code and details from Bruce and test it also.

- We are at the phase of learning what has been done so far and exercising on already located events…

On going work

- Obtain errors for the 11 / 49 period 3 events so as to be able to send them to Japan also.

- Learning as much as possible about event location and exercising on already located events .